CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R002065520010-0" ZUDAROVSK APPROVED FOR RELEASE: Thursday, September 26, 2002 TIA 1.91/155 Whynthesis of 2-Alkyl- q-Najhthothinzolcs. II," V. M. Zubarovskiy, S. N. Fidel'. Student, Inst of TENTO Chemistry absorption properties. USER/Chemistry propd 2 styryl dyestuffs and studied their light quaternary salts and p-dimethylaminobenzaldehyde Synthesized 8 new homologues of 2-alkyl-ocmarathothiszole series contg alkyl radicals 180-77 Owe Chem, Acad Sci WESH outy), and undecyl. Studied their properties, mosyl, isobutyl, butyl, emi, henyl, heptyl, proper of their salts. Obsheh Khim" Vol XXI, Bo Dyestuffs (contd) Dyestuffs Maghthothistole Derivetives From their 9 md pp 2064-2068 MOV 194055 HOV 51 SSILTER 157

"APPROVED FOR RELEASE! Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0

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**CIA-RDP86-00513R002065520010-0"

**CIA-RDP86-00513R002065520010-0" Tondensation of o-Aminothionhanol with a-Hydroxy Acids. Alcohols and Ketsness of the Benzthlazole Series. V. M. Zunaroyski and M. D. Rikelman. J. Gen. Chem. U.S.S.R., 1951, 21, 2199-2205 and 2205-2211.—In the reaction previously described (Phot. Abs., 1953, No. 1323) for the preparation of 2-hydroxymethylbenzthiazole, glycollic scid is replaced by other preparation of Monopasic neids. e.g., lactic and mandelic, give analogous products: seven acids give mixtures in which the hydroxy compound is a minor constituent.

J. Sac. Dyers and Col. ZUBAROVS HARROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R002065520010-0"

Aldehydes, Nitration

Nitration of oc-thiophene aldehyde Dokl. AN SSSR 83 no. 1, March 1952

SO: Monthly List of Russian Accessions, Library of Congress,

August

2 19**5% U**ncl. APPROVED FOR RELEASE: Thursday, September 1997 Approved FOR RELEASE THURSDAY, Septemb

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0"

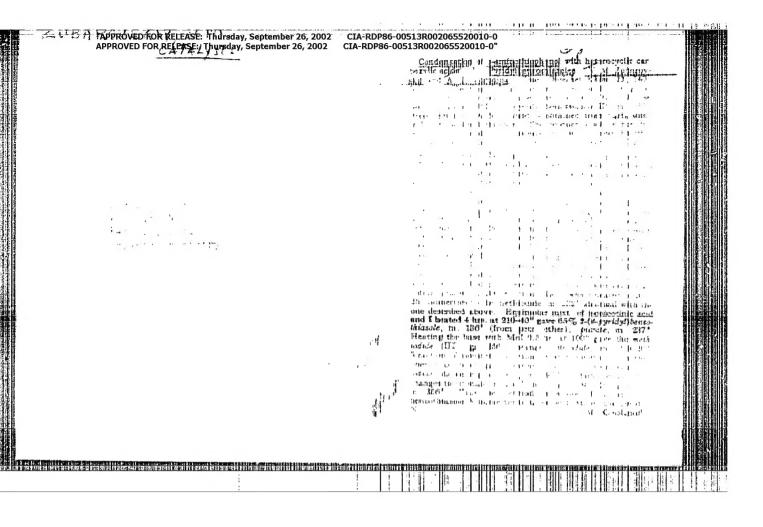
ZUBAROVSKII, V.M.

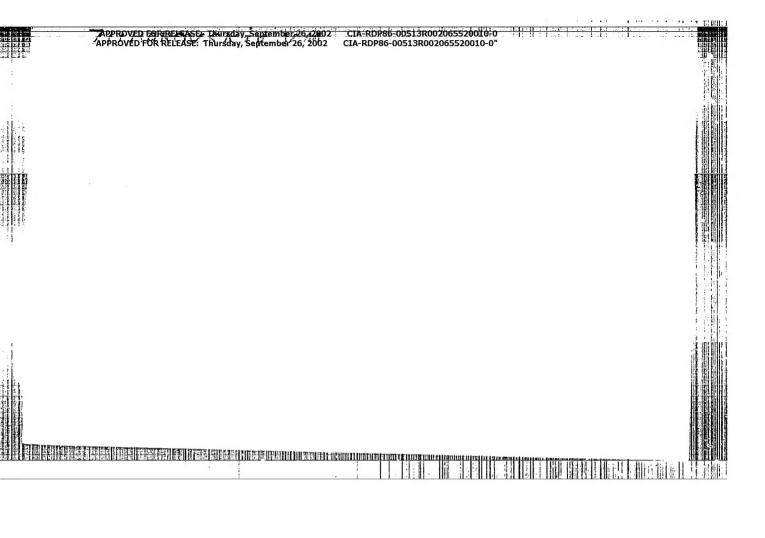
Synthesis of thiazole derivatives. Part 9. Method for the condensation of O-aminothiophenol with acide. Ukr.khim.zhur.19 no.4:

413-417 153. (MIRA 8:2)

1. Institut organicheskoy khimii Akadomii nauk USSR.

(Benzenethiol) (Acids, Organic)







"APPROVED FOR RELEASE: Thursday, September 26, 2002

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CIA-RDP86-00513R002065520010-0

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T.W.

Synthesis of thiazole derivatives. Part 12: Benzothiazolezhodanines. Zhur. ob. khim. 27 no.8:2177-2183 Ag 57. (MIRA 10:9)

1. Institut organicheskoy khimii Akademii nauk Ukrainskoy SSR. (Thiasole) (Miodanine)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0"

5(3) AUTHOR2

Zubarovskiy, V. E.

307/79-29-6-54/72

TITLE:

Synthesis of Thiazole Derivatives (Sintem proizwodnykh tiazola). XIII. Benzothiazolylthiazoles (XIII. Benztiazoliltiazoly)

PERIODI CALS

Zhurmal obshchey khimii, 1959, Vol 29, Nx 6, pp 2018-2027 (USSR)

ABSTRACT:

The [benzothiazolyl-(2)] -methyl ketone which was already earlier synthesized by the author (Ref 1), may serve as initial product for the synthesis of Zomethylobenzothiazolylthinzoles, which were not get described up to present and which are important for the synthesis of polymethene dyestuffs. In the present paper the bromination of the mentioned ketone and the ketone (I) obtained from it, was used for the synthesis of henzothiazolylthiazoles (II) and (VII). It was found that bromination of [bemzothiazoly1-(2)] methyl ketone in glacial acetic acid medium at 85-900 is easy, but it is very slow at low temperature. At the mol relation 2:1 of ketone and bromine, one half of the used ketome changes into (I). while the other half separates as bromide. By hydrolysis about 30% of used ketone can be reclaimed. The orude product (I) must be separated from the admixed initial ketone only by multiple recrystallization. The pure bromine ketone (1) meits at 91.5°. It was subjected to conversions described in scheme 1, which led to

Card 1/2

Synthesis of Thiazole Derivatives. XIII. Hemzothiazolylthiazoles SQV/79-19-6-54/72

the isomeric benzothiazelylthiazoles (II) and (VII). The weak base (II) does not even react with excess methyl iodide in a hermetically sealed tube at 150° contrary to (VII), which forms quantitatively iodine ethylate (VIE) No. 7, under the same conditions. When othyl-ntoluene sulphonate is used note cases are converted into quaternary salts (III; $X=n-CH_3C_6H_4SO_3$) and (VIII; $X=n-CH_3C_6H_4SO_3$).

From the quaternary salts of the above mentioned benzothiazolylthiazoles polymethene dyestuffs of various kind were

synthesized such as: "styryle" (IX) and (X), asymmetric

thiazolethiacyanines (XI) and (XII), symmetric thiazolecarbocyanines (XIII) and (XIV), and finally rhodacycnines (XV) and (XVI). The absorption maxima of all dyostuffs were determined in a solution of ethyl alcohol in order to be able to compare their degree of coloring. There are 5 references, 3 of which are Soviet.

ASSOUTATION:

Institut organicheskoy khimii Akademii namk Ukrainskoy SSR

(Institute for Organic Chamistry of the Academy of Sciences of the

Ukrainskaya 38R)

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SUBMITTED: Card 2/2

April 21, 1958

5/079/60/030/04/43/080 B001/B002

AUTHORS :

Zubarovskiy, V. M., Khodot, G. P.

TITLE:

Synthesis of Thiazole Derivatives. XIV. New Algohols of the

Benzthiazole Series and Their Conversions

PERIODICAL:

Zhurnal obshchey khimii, 1960, Vol. 30, No. 4, pp. 1245-1250

TEXT: Among 2-methylbenzthiazole derivatives, 2-methyl-5-hydroxymethyl-(I) and 2-methyl-6-hydroxymethylbenzthiazole (II) were hitherto unknown. The esters of 2-methylbenzthiazole-5- and 2-methylbenzthiazole-6-carboxylic acid were the initial products used for the synthesis of these two alcohols. The methyl ester of the former acid was obtained from the methylester of 3-nitro-4-chlorobenzoic acid, according to the method described in Ref. 1, the ethyl ester of the second acid was obtained from acid chloride and alcohol. The conversion of the esters into carbinols (I) and (II) was carried out by their reduction with alumolithiumhydride in the range of -40 to -45, since 2-methylbenzthiazole above 0 (as expected) reacts with the ether solution of alumolithiumhydride in the 1-double bond. Carbinols (I) and (II) may be separated from the admixture of the initial ester by

Card 1/3

Synthesis of Thiazole Derivatives. XIV. New Alcohols of the Benzthiazole Series and Their Conversions

S/079/60/030/04/43/060 B001/B002

treatment with an alcoholic solution of caustic potash. The potassium salts of benzthiazole carboxylic acid thus developing, are easily separable. The synthesis of the isomeric carbinols (I) and (II) opened the way toward the synthesis of a series of 2-methylbenzthiazole derivatives with substituents in positions 5 and 6; chloromethyl-, cyanomethyl-, carboxymethyl-, diethyl-aminomethyl-, methoxymethyl- and acylmethyl-substituted compounds:

(I and II) R = OH, (III and IV) R = C1, (V and VI) R = CN, (VII and VIII) R = C00H, (IX and X) R = CH₃C00, (XI) = C_6H_5C00 , (XII) R = $H(C_2H_5)_2$, (XIII and XIV) R = CH₃O. The bases (XII - XIV) are liquids, the others are colorless, crystalline products. Under usual conditions, the new bases develop quaternary salts which may be used for the synthesis of

Card-2/3

s/079/60/030/05/38/074 B005/B016

AUTHORS:

Zubarovskiy, V. M., Khodot, G. P.

TITLE:

Synthesis of Thiszole Derivatives, XV. Benzothiszolyl

Pyrazolones

PERIODICAL: Zhurnal obshchey khimii, 1960, Vol. 30, No. 5, pp. 1585-1590

TEXT: The authors of the present paper synthesized 3 novel benzothiazolyl pyrazolones from 2-methyl-(benzothiazolyl-6)-hydrazine (I), 2-methyl-(benzothiazolyl-5)-hydrazine (II), and 2-methyl-mercapto-(benzothiazolyl-6)-(benzothiazolyl-5)-hydrazine (III). The synthesis of these 3 initial substances was published hydrazine (Ref.). The compounds (I) and (II) are unstable, and were, recently (Ref.). The compounds (I) and (II) are unstable, and were, therefore, stored in the form of their hydrochlorides. Only immediately before carrying out the synthesis, the bases were set free from these salts. Compound (III) may be stored for some time in the form of the base. To prepare the benzothiazolyl pyrazolones, the compounds (I), (II), and (III) were condensed with acetoacetic ester. The mixture of the substituted benzothiazolyl hydrazine with acetoacetic ester was heated to 130-1350 in order to remove completely water and alcohol which are formed on condensa-

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Synthesis of Thiazole Derivatives, XV. Benzothiazolyl Pyrazolones

s/079/60/030/05/38/074 B005/B016

tion. If the condensation is made in the cold, the bensothiazoly! hydrazone of acetoacetic ester is formed which splits off alcohol when heated to the melting point, and is converted to the corresponding pyrazolone derivative. In this condensation, the benzothiazolyl pyrazolones result in 80-90% yield. Their structural formulas are given, They can easily be purified by precipitation from the alkaline solution. The benzothiazolyl pyrazolones synthesized are colorless crystalline substances of amphoteric character. Their aqueous alcoholic solutions turn brown-red when adding ferric chloride. This color soon disappears again. The active methylene group of the pyrazolone ring makes the 5 resultant benzothiazolyl pyrazolones capable of different condensation reactions. The authors performed condensations with aldehydes, p-nitroso-dimethyl aniline, diphenyl formamidine, and the iodo ethylate of 2-(w-acetanilidoviny1)-benzothiazole. On condensation with the latter compound in pyridine, dimethine merocyanines are formed, the structural formulas of which are given. In addition to these dyes, the same well-known symmetrical oyanine dye bis-(3-ethyl-benzothiazole-2)-trimethine-cyanine iodide results on condensation in all three cases. Besides, yellow substances of unexplained structure are obtained. The merocyanines can easily be

CIA-RDP86-00513R00200 "APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0*

Synthesis of Thiazole Derivatives. XV. Benzothiazolyl Pyrazolones

\$/079/60/030/05/38/074

purified of these impurities by means of chromatography. The yellow byproducts are probably formed in connection with the conversion of the iodo ethylate of 2-(w-acetanilido-vinyl)-benzothiazole to the symmetrical thiacarbocyanine which occurs as a side reaction. A presumable structural formula for one of these yellow products is given. The resultant merocyanines are decolorized by hydrochloric acid. When heated with dimethyl sulfate, they form salts which contain an active methyl group and may be applied to the preparation of polymethine dyes. In an experimental part, all procedures performed are described in detail. All resultant products are characterized by melting point and nitrogen content, There is 1 Soviet reference.

ASSOCIATION: Institut organicheskoy khimii Akademii nauk Ukrainskoy SSR (Institute of Organic Chemistry of the Academy of Sciences, Ukrainskaya SSR)

SUBMITTED: April 20, 1959

Card 3/3

APPROVED FOR RELEASE: Thursday, September 26, 2002

CIA-RDP96-00513R002065520010-0

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R002065520010-0"

ZUBAROVSKIY, V.M.; KHODOT, G.P.

Synthesis of thiazole derivatives. Part 22: Organomagnesium synthesis involving aldehydes and ketones of the bencothiazole and benzimidazole series. Zhur. org. khim. 1 no. 12:2232-2236 D *65 (MIRA 19:1)

1. Institut organicheskoy khimli AN UkrSSR. Submitted July 29, 1964.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R002065520010-0"

ZUBAROVSKIY, V.M.; BACHURINA, M.P.

Synthesis of thiszole derivatives. Part 20:6-(D-hydroxyethyl)-2-methylbenzothiazole. Zhur. ob. khim. 34 no.11:3797-3800 N *64 (MIRA 18:1)

1. Institut organicheskoy khimii AN UkrSSR.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 PAPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00510-0 CIA-RDP86-00510-0 CIA-RDP86-00510-0 CIA-RDP86-00510-0 CIA-RDP86-000510-0 CIA-RDP86-000510-0 CIA-RDP86-00051

ZUBAROVSKIY, V.M.; KHODOT, G.P.

Synthesis of thiazole derivatives. Part 21s Formyl derivatives of 2-methylbenzothiazole. Zhur. ob. khim. 34 no.11s3801-3806 N '64 (MIRA 18:1)

1. Institut organicheskoy khimii AN UkrSSR.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R002065520010-0"

ZUBAROVSKIY, V.M.; MOSKALEVA, R.N.; BACHURINA, M.P.

Synthesis of thiazole derivatives. Part 19: Benzothiazolylbenzimidazoles. Zhur.ob.khim. 32 no.5:1581-1586 My 162. (MIRA 15:5)

1. Institut organicheskoy khimii AN Ukrainskoy SSR. (Benzimidazola) (Benzothiazola)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0"

ZUBAROVSKIY, V.M.; KHODOT, G.P.

Synthesis of thiazole derivatives. Part 18: New ketones of the benzothizole series and their transformations. Zhur.ob.khim. 32 no.5:1574-1581 My '62. (MIRA 15:5)

1. Institut organicheskoy khimii AN Ukrainskoy SSR. (Benzothizole) (Ketones)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0"

ZUBAROVSKIY, V.M.; MOSKALEVA, R.N.; Prinimala uchastiya BACHURINA, M.P.

Synthosis of thiazole derivatives. Part 17: Hydroxymethyl-substituted 2-methylthiazoles. Zhur.ob.khim. 32 no.2:570-575

F '62.

Institut organicheskoy khimii AN Ukrainskoy SSR.

(Thiazole)

्रामार शामा मा मुख्य करने समि सामार स्थान "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 ZUBAROVSKIY, V.M.; VEREOVSKAYA, T.M., KIPRIANOV, A.I. Synthesis of derivatives of thiazole. Part 16: New hydroxyalkyl-2-methylbenzothiazoles. Zhur.ob.khim. 31 no.9:3056-3062 S '61. (MIRA 14:9) 1. Institut organicheskoy khimii AN Ukrainskoy SSR. (Thiazole)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R002065520010-0"

BOBOKHIDZE, O.; ARTAMONOV, L.; ORLOV, A.; ZDYBSETY, I.; KOVALEV, I.; ZUBARSKIY, N.; FRIDMAN, M.

Letters to the editor. Sov.profsoiuzy 7 no.23:54-56 D 159. (MIRA 12:12)

1. Instruktor sovprofa Gruzii (for Bobokidze). 2. Sotrudnik gazety "Trudovoy front" (for Artamonov). 3. Zamestitel' predsedatelya fabrichno-zavodskogo komiteta Ivanovskogo melanzhevogo kombinata (for Orlov). 4. Zamestitel' predsedatelya mestnogo komiteta bazy Tyrny-Ausskogo kombinata Kabardino-Balkarskoy ASSR (for Zdybskiy).

(Trade unions) (Efficiency, Industrial)

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YELISEYEVA, V.I.; METELKIN, A.I.; ZUBARYAN, K.M.

Method of reinforcing natural and artificial leather; Soviet Certificate of Inventions No.145298. Kozh.-obuv.prom. 4 no.8:43 Ag '62. (MIRA 15:8) (Leather industry—Technological innovations)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0"

ZUBASHCHENKO, M.A.

Karut of Northern Vietnam. Izv.Vor.otd.Geog.ob-va no.3:159(Vietnam, North-Karst)

(Vietnam, North-Karst)

"APPROVED FOR RELEASE: Thursday, September 26, 2002

ZUBASHCHENKO, M.A.

Principles of the geomorphological regionalization of North Vietnam, Nauch, zap. Ver. etd. Geog. ob-va; 45-151 (63.)

(MIRA 17:9)

CIA-RDP86-00513R002065520010-0

RUZHETSOV, N.D.; ZUBASHENKO, A.Te.

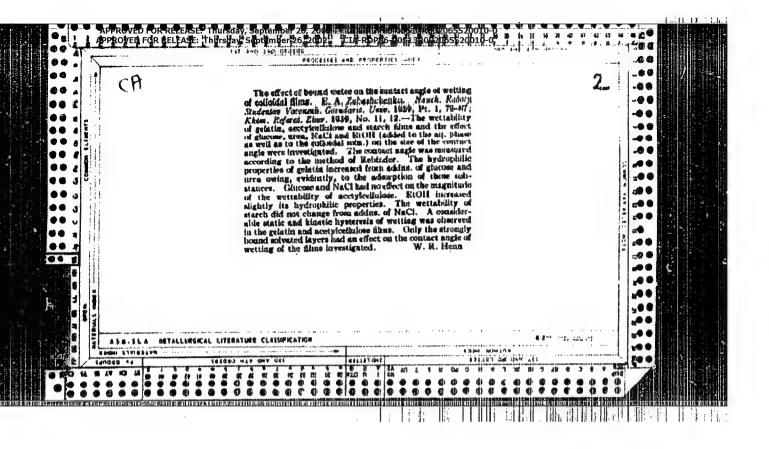
Improving the designs of semiautomatic plate-making machines. Stek.

i ker. 17 no.3:24-36 Mr '60. (MIRA 13:6)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R002065520010-0" ZUBASHENKO, O.IE.

Semiautomatic apparatus for applying colored matterns on porcelain and faience articles. Leh.prom. no.3:5-8 Je - Ag 162. (MIRA 16:2)

l. Budyanskiy fayansovyy zavod. (China painting)



"APPROVED FOR RELEASE: Thursday, September 26, 2002

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CIA-RDP86-00513R002065520010-0

Zubashchenko, M. A. - "Toward a history of research on the karst of the Eastern European plain," Izvestiya Voronezhak. gos. ped. in-ta, Vol. X, Issue 2, 1948, F. 89-110 - Bibliog: 57 items

So: U-3566, 15 March 53, (Letopis 'Zhurnal 'nykh Statey, No. 13, 1949)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 CIA-RDPS6-00513R002065520010-07 SOURCE CODE: UR/ODJ2/66/032/CO1/CO12/CO14 ACC NRI AF6019015

Zubasheva, L. V.; Garan', V. P.; Miching-AUTHOR: Yurchenko, Ye. I.; Savvin, S. B.; kaya, I.S.

ORG: Scientific-Research and Planning-Technological Institute for Machine Construction (Nauchno-issledovatel skiy i proyektno-tekhnologicheskiy institut mashinostroye-

TITLE: Photometric determination of niobium in alloy steels by nitrosulfophenol S

SOURCE: Zavodskaya laboratoriya, v. 32, no. 1, 1966, 12-14

TOPIC TAGS: niobium containing alloy, alloy steel, colorimetric analysis, spectrophotometric analysis

ABSTRAOT: A method was developed for the photometric determination of 0.01-2% No in alloy steels without the separation of Fe and the alloy elements. It is based on the reaction of Nb with nitrosulfophenol S in 3 N HCl solution. A sample of the steel (0.5 g with an expected content of 0.01-0.05% Nb and 0.25 g with an expected content of 0.05-29 No) is dissolved in 40 ml H₂SO₂ (1:4) in a 100 ml capacity glass; 1-1.5 ml H₂PO₂ (1.70) is added; the solution is oxidized by adding drops of ENO₃ and steamed until SO₃ vapors appear. The walls of the glass are washed with H₂O and the mixture until SO₃ vapors appear. After cooling, 15 ml of 20% tartaric acid is heated again until SO₃ vapors reappear. After cooling, 15 ml of 20% tartaric acid

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ACC NR: AP6019015

solution and some water are added. The solution is heated until the salts are dissolved, then it is cooled and transferred into a 100 ml measuring flask, and brought to the mark by the addition of distilled water. For the photometric determination, 4 ml of solution (with 0.01-0.10% Nb), 2 ml of solution (with 0.1-0.9% Nb) or 1 ml of solution (with 0.9-1.8% Nb) is placed in a 50 ml measuring flask; 24 ml of HCl (1:1), 15 ml of H₂O, and 1 ml of 0.1% solution of nitrosulfophenol S are added. The solution is heated for 5 min. at 65-70C, cooled, and brought to the mark by the addition of distilheated for 5 min. at 65-70C, cooled, and brought to the mark by the addition of distilheated for 5 min. at 65-70C, cooled, and brought to the mark by the addition of a layer of the 11ght absorption is then measured with an SF-4 spectrophtometer in a layer 10 mm thick on the wavelength of 640 mm or with an FEK-M photocolorimeter in a layer 10 mm thick with a red light filter. The measuring is carried out with respect to the 30 mm thick with a red light filter. The measuring is carried out with respect to the solution of an alloyed steel having about the same composition but no Nb. The nitrosulfophenol S is added to this solution. The time required for photometric determination is 2.5-3 hr. The average relative error of analysis is 2-6%. Orig. art. has: 1 fig. and 2 tables.

SUB CODE: 07/ SUBM DATE: none/ ORIG REF: 005

Card 2/2

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206000-0 CIA-RDP86-00518-0 CIA-RDP86-00518-0 CIA-RDP86-00518-0 CIA-RDP86-00518-0 CIA-RDP86-00518-0 CIA-RDP86-00518-0 CIA-RDP86-00518-0 CIA-RDP86-00518-0 CIA

DASHEVSKIY, Lev Naumovich, kand. tekhn. nauk; FOGREBINSKIY, Solomon Beniaminovich, inzh.; SPKABARA. Yekaterina Alekseyevna, kand. tekhn. nauk; Prinimali uchastiye: LOSEV, V.D.; ABALYSHNIKOVA, L.M.; ZORINA, Z.S.; ORLOVA, I.A.; ZUBATENKO, A.Ya.; PAVLENKO, Yu.S., inzh., retsenzent; GLUSHKOV, V.M., akademik, red.

The "Kiev" computer; its design and operation! Tychislitel'naia mashina "Kiev"; procktirovanie i okapluntatsida. Kiev, Tokhnika, 1964. 320 b. (NTB4 17:11) ZUBATENKO, A.Ya.

Testing system for an operational memeory device. no.4:40-41 0-D '63.

Avtom. 1 prib. (MIRA 16:12)

1. Institut kibernetiki AN UkrSSR.

KONDALEV, A.I. [Kondaliev, A.I.]; ZUBATENKO, A.Ya.

Experimental dicde capacitor memory system. 2bir.
prats' z obchys. mat. i tekh. 2:105-110 '61. (MIRA 15:2)
(Electronic calculating machines)
(Information storage and retrieval systems)

35211

9.7140 (also 1147, 1164, 2902)

s/696/61/002/000/009/009 D299/D302

AUTHORS.

Kondalyev, A.I. and Zubatenko, A.Yile.

TITLE.

Experimental diode-capacitor working memory (DCM)

SCURCE

Akademiya nauk Ukrayins'koyi RSR. Obchyslyuval'nyy tsentr. Zbirnyk pratsi z obchysływalinoyi matematyky i tekhniky;

v. 2, 1961, 105-110

TEXT: A memory device incorporating linear capacitors and diodes, was tested as a modified version of the working memory of the computer "Kyyiv", The working memory has to meet the following requirements: 1) Storing capacity-1023 binary 41 digit numbers; 2) circulating frequency- at least 100 kc; 3) the codes received by, and transmitted from, the working memory, are in the form of standard pulses (suitable for the computer). The autonomy principle, used in design of the computer Kyyiv, was also used in developing the control system of the DCWM. The connection is described between the DCWM and the other computer units. In order to test the operation of the diode-capacitor memory and to determine the characteristics of its control elements, an experimental modell for 16

Card(1/3

S/696/61/002/000/009/009 D299/D302

Experimental diode capacitor ...

cight-digit numbers was constructed. The model incorporated the mand DCWM control units, as planned for the computer Kyyiv, The model had the following units. A (4-digit) address register, a (4-digit) address counter, a commutation unit, decoder, amplifier etc. The following probation on the diode characteristics; 2) the dependence of its operation on the diode characteristics; 2) the dependence of storing time on the parameters of the memory unit; 3) the effect of the displacement voltages and of the pulse amplitudes on its operation; 4) the dependence of the read-signal level on the parameters of the memory unit; 5) the influence of fluence of regeneration frequency on storing time; 6) the influence of temperature conditions on its operation. In selecting the diodes, 7 types were investigated. It was found that the diode of 15 (DIV) had the most convenient characteristics (R_{rev}/R_{dir} 28000). The storing time depends not only on the reverse resistance R_{rev}, but also on the capacitance C. An increase in displacement voltage led to a decrease in storing time. The maximum storing capacity was found to be 128 or 256 codes, with the given diode type. A temperature increase to 450 C, led to a lowering of

Card 2/3

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0*

Experimental diode capacitor ... S/696/61/002/000/009/009

the signal level by 60.-70%, hence to lower storing capacity. Further, the various elements of the control unit of the DCWM are described.

Card 3/3

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0

ZURATKIN, G.Ye.

Improvement in local operations planning is one of the condition:
for shortening building time. Trudy MIEI no.15:449-453 '61.
(MIRA 14:12)

1. Glavnyy inzhener sektora Eauchno-isələdovatel skego instituta ekonomiki stroitel stva Akademii stroitel stva i arkhitektury SSSR...
(Construction industry)

SIMANOVSKIY, B.Ye.; ZUBATKIN, G.Ye.; GOL'DEERG, I.I.

Organizing production and operations planning at the construction of an iron foundry. Prom. stroi. 40 no.8:10-13 Ag '63. (MIRA 16:3) (Iron founding)

**APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 CIA-RDP86

ZUPAT (APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R002065520010-0 (CIA-RDP86-00513R002065520010-0 LECHNOLOGICAL Institute Lectnors ov)

"Thermodynamic analysis of circuits of closed type for power installations with the MGD-generators."

Report presented at the Section on Thermodynamics, Scientific Sassion, Council of Acad. Sci. Ukr SSR on High Temperature Physics, Kiev, 2-4 Apr 1963.

Reported in Teplofizika Vysokikh temperatur, No. 2, Sep-Oct 196], p. 321, JPES 24,651.

WEEE!

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0"

ZUBATOVA, I.N.

Single firing of porcelain articles manufactured by hot die cast-ing. Stek. i ker. 19 no.6s26-27 Je 162. (MIRA 15:7)

(Porcelain)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0"

MITIN, N.G.; ZUBATOVA, I.N.; ROMANOVSKATA, Z.Z.; KUDRINA, T.I.; VISHNKVSKIY, 3.1.

Manufacturing porcelain ware by the method of slip casting. Stek. i ker. 17 no.9:38-41 S 160. (MIRA 13:9)

(Porcelain)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R002065520010-0"

ZUBATOVA, I.N.; SEN', Z.P.; KUDRINA, T.I.

Using bentonites in the production of faience. Bent-gliny Ukr. no.3:108-113 '59. (MIEA 12:12)

1. Nauchno-issledovatel skaya laboratoriya Upravleniya farforo-fayansovoy i stekol noy promyshlennosti Kiyevskogo sovnarkhoza.
(Bentonite)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 PAPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00513R00206520010-0 CIA-RDP86-00510-0 CIA-RDP86-000510-0 CIA-RDP86-000510-0 CIA-RDP86-000510-0 CIA-RDP86-000510-0 CIA-RDP86-000510-0 CIA-RDP86-00

CHUMAK, Tele, itas, tekhn. nauk; ZUBATYY, A.G., inzh.

fall-maining the shrinkage of meat during freesing. Khol. tekh. d takh. no.1:116-123 *65. (MIRA 18:9)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0

JASIUKEVICIUS, V.; JARULAITIS, V.; LANS, A.; SASHAUSEAS, K.;

ZUEAUSKAS, A.; VILPISAUSKAS, V., red.; MITTEMAS, R., red.; CECITE, V., tekh. red.

[Froduction of bricks, tiles, and drainpipes] Plytu cerpiu ir drema gemyba. [By] V.Jasiukovicius ir kiti. Vilnius, Valstybine politinos ir Exkeliuss literaturos leidykla, 1961. 258 p.

(Bricks) (Tiles) (Drain tiles)

(MIRA 15:3)

TAPPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0*

IVANAUSKAS, T.; MUNASKA, J.; ZUBAVICIUS, T.

[Zuvintas Lake Preserve] Zuvintas, Vilnius, Valstytine politines ir mokalines literaturos loidykla, 1961. 46 p.

(Zuvintas, Lake—Birds)

(Zuvintas, Lake—Birds)

ZUPAVT: "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0" CIA-RDP86-00513R002065520010-0"

34105. Frant Vozblys. (E25 - lotiya Fosk, cytovayoda iz. Czalira). Crossk, 1949,

00: Knichuaya, Latopia', Vol. 7, 1955

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R002065520010-0"

ZUBAVIN, B.

Nesmolkaiushchaia batareia. Rasskazy (Incessant battery; short stories). Hoskva, Voennoe izd-vo, 195h. lh2 p.

SO: Monthly List of Russian Accessions, Vol. 7, Mo. 5, August 1954

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0" CIA-RDP86-00513R002065520010-0"

BARER, A.S.; Prinimali uchastiye: GOLOV, G.A.; ZUBAVIN, V.B.; TIKHOMIROV, Ye.P.

Limit of human resistance to transverse acceleration and the physiological reactions of the organism. Probl. kosm. #col. 2:255-272 *62. (MIRA 16:4)

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APPROVED FOR RELEASE: Thursday, September 26, 2002
ZUBCHPXKO, I.I., aspirant

Engagement of a chain, equidimensional by link pitch, with chain-wineal teeth. Izv. vys. ucheb. zav.; mashinoatr.
no. 10:56-60 '65 (MIRA '19:1)

1. Submitted November 28, 1964.

ZUE ATOWAPPROYED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
CIA-RDP86-00513R002065520010-0
CIA-RDP86-00513R002065520010-0

Herbicides

Chemical method of controlling woeds. Sel. i sem 19, No. 8, 1952.

Monthly List of Russian Accessions, Library of Congress October 1952. UNCLASSIFIED.

- "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R002065520010-0" 1.
- USSR (600)
- Weed control
- Chemical weed control. Dost.sel'-khoz. No. 2, 1953.

Monthly List of Russian Accessions, Library of Congress, June

1953. Unclassified.

APPROVED FOR RELEASE: Thursday, September 26, 2002

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TVAMAUSKAS, T.; ZUBAVICHUS, T. [Zubavicius, T.].

Reacclimatization of the mute swan is Lithuania [with summary in English]. Biul.MOIP. Otd.biol. 61 no.5:5-8 5-0 '56.

(ZUVINTAS, LAKE-SWANS)

*AppRoved For Melbase Thursday, September 26, 2002 CIA-ROPSG-00513R00206S520010-0
*TYANNUSSASELAFE THURSDAY, September 26

L 18079-63

ACCESSION NR: AP3005652 A/DD

ENT(1)/BDS/ES(a)/ES(b)/ES(c)/ES(k) APD/APPTC/APPEC 8/0219/63/055/007/0024/0029

AUTHOR: Berer, A. S.; Golov, G. A.; Zubavin, V. B.; Tilmomirov, Ye. P.

TITLE: Physiological body reactions of the human greenism during action of maximal (in time and value) acceleration directed along the back-chest axis. Report 1: Tolerance Limits and basic trend of physiological reactions

SOURCE: Byulleten' eksperimental'noy biologii i meditsinys, v. 56, no. 7, 1963, 24-29

TOPIC TAGS: acceleration, physiological body reaction, maximum tolerance, cardiovascular system, respiratory system

ABSTRACT: To determine the maximum tolerances to accelerations acting along the back-chest axis at an angle of 65°, 45 men aged 24-34 in a series of 203 experiments were subjected to accelerations ranging from 4 to 15 g on a large centrifuge radius. The following were studied: Cardiovascular system, external respiratory system, coordination of movements, bioelectric activity of the brain, bioelectric activity of skeletal muscles, and subjective sensations of the subL 18079-63

ACCESSION NR: AP3005652

jects. Television and movies were used during the experiments. Reactions of the subjects to the mean acceleration values of 6-10 g can be divided into a stages. 1. Adaptation to external environment, characterized by significant increases in all systems and functions under study. 2. Resistance as the functional level of the systems decreases and the energetic level of response reactions becomes exhausted (gradual voltage decrease in the electromyograms and ECG and EEG shifts). 3. Adaptation collapse and functional discoordination. 4. Recovery, starting from the moment the centrifuge stops. For higher accelerations the highest functional levels of the systems are evoked and these in turn lead to exhaustion and the collapse of compensatory reactions. The limiting factors for high acceleration rates (12 to 15 g) are cardiovascular and external respiratory functional disturbances. The maximum tolerance for 6 g is 653 seconds, for 10 g 58 secs, for 12 g 28 secs, for 14 g 18 secs, and for 15 g 10 secs. Orig. art. has: 2 figures.

ASSOCIATION: none

SUBMITTED: .. 16Aug62

DATE ACQ: 21Aug63

ENCL:

Card 2/2 SUB CODE: AM NO REF SOV:

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report submitted to 15th Intl Astronautical Cong, Warsaw, 7-12 Sep 64.

วาวเรา การวางเรา เมื่อเกียวการสายเลือนได้เพื่อเกียวการสายเกรายการสายเกรายการสายเกรายการสายเกรายการสายเกรายการส

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0" I FROM, A. N. S. ZHINYMIN, V.B.

Mature of electromacephalogiam and the work capacity of a randoder the orificance of accelerations arother the North Rose. Probl. Rose. 27, 37 2, 760 165.

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AUTHOR: Barer, A. S.; Golov, G. A.; Zubavin, V. B.; Scrokina, Ye. I.;

ORG: none

TITLE: Oxygen balance of an organism at prolonged accelerations

SOURCE: International Astronautical Congress. 17th, Madrid, 1966. Doklady. no. 12. 1966. Kislorodnyy balans organizma pri dlitel nedeystvuyushchikh

TOPIC TAGS: biologic acceleration effect, animal physiology, dog, hypoxia, space physiology, human physiology

ABSTRACT:

The author reviewed the literature as well as experiments on humans (1500 tests using 120 subjects) and white rats (375 tests). He stated that changes in oxygen balance in humans are one of the main factors limiting prolonged G tolerance. This is primarily due to circulatory and respiratory functions which are directly affected by accelerations. The magnitude of these changes depends on the magnitude and duration of Card 1/4

HATE WAS ITSUED THEN THE SECRETARY LONG TO SHEET AND ASSOCIATED ASSOCIATION. APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE Ohursday, September 26, 2002 CTA-RDP86-00513R002065520010-0 CTA-RDP86-00513R002065520010-0"

Changes in external respiration including gas exchange during accelerations can be attributed to biomechanical difficulties and disrupted pulmonary circulation. Here, increased work by diaphragm muscles increases oxygen consumption. At high acceleration magnitudes (12 G and higher), this disruption of gas exchange renders the entire external respiratory process "unprofitable, " or inefficient.

Up to 8-12 G, there is an increase in the activity of pulmonary ventilation reflected in accelerated respiration and an increase in per-minute volume. A further increase in acceleration magnitude leads first to relative and then to an absolute decrease in volumetric indices of external respiration. With an increase in acceleration, there is a steady 200 ml/G decrease. An increase in the per-minute respiratory volume in the 8-12 G range is associated with increased Op consumption and elevated CO2 elimination. However, the relative efficiency of pulmonary ventilation decreases as acceleration magnitude increases. The percentage content of 02 in resolved air increases while CO2 decreases. An analysis of the literature and data from the author's experiments indicate that the nature of qualitative changes in the gaseous composition of respired air is associated with an

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R002065520010-0"

increase in physiclogically dead space due to changes in pulmonary circulation. Accelerations cause arterial hypoxemia, the severity of which depends on acceleration magnitude and duration. Beyond a dependence on acceleration magnitude, the level of hemoglobin decreases by situations also does not depend on acceleration magnitude and is a constant value.

The circulatory system plays a leading role in supplying oxygen to the brain during acceleration. In experiments on human subjects, cerebral circulation and circulation in external vessels of the head were monitored. The force vector of acceleration plays an important part here, especially the longitudinal component. When the value of this component reaches 1.6—1.3 G, vessels. At 3 G, a normal situation prevails while at 5 G, blood pooling decreases by a factor of two. REG culation.

In experiments with animals, general cxygen consumption, oxygen tension in tissues, and the tissue

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oxidation reduction potential were studied. Here, it was established that during accelerations, there is a displacement of oxygen balance in various tissues with a tendency toward insufficient oxidation which depends on acceleration magnitude and duration as well as specific metabolic qualities of the tissues under study. For instance, the period necessary for the elimination of oxygen depth in the brain was 1.5—2.0 times shorter than for skeletal muscles.

In experiments where animals and humans were exposed to various atmospheric conditions during acceleration (normal, increased oxygen partial pressure, and decreased barometric pressure to 405 mm Hg), it was found that increased oxygen pressure improved resistance to prolonged accelerations. However, when general and cerebral hemodynamics were disrupted due to a high longitudinal acceleration component, this positive effect was eliminated by a disruption of gas exchange. Increased oxygen partial pressure (100 mm H₂O) increased human tolerance of 12 G by 35—40 sec. ATD PRESS: 5098-F7

SUB CODE: 06 / SUBM DATE: none

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0" CIA-RDP86-00513R002065520010-0"

"Physical and Chemical Composition of Water in Rakovnicky Creek" p. 334 (VODA, Vol. 33, No. 12, December 1953, Praha, Czechoslovakia).

50: Monthly List of East European Accessions, IC, Vol. 3, No. 5, May 1954, Unclassified

520010-0

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Application - Corrosion. Protection From Corrosion. H-4

Abs Jour: Referat Zhur-Khimiya, No 5, 1958, 14873.

Author : Zubcenko D.

Inst

Title : Specific Form of Corresion of the Pipes of the Water Supply

System of the Town of Roznov Near Radhost.

Orig Pub: Voda, 1956, 35, No 9, 265-269.

Abstract: As a result of investigations of the sources of Fotable water, nature of incrustations and of the material of the water pipes, the causes of corrosion and means of preventing the latter have been determined. Steel pipes are less subject to corrosion than cast iron pipes and the latter must contain small amounts of Mi, Cu or Cr in order obviate possible graphitication of the iron. Reduction in size of iron and graphite particles has

Card : 1/2 "APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002005520010-0"

CZECHOSLOVAKIA/Chemical Technology - Chemical Froducts and Their Application - Water Treatment. Sewnge Water. #-5

Abs Jour : Ref Ehur - Khimiya, No 3, 1958, 8457

Author : Zubeenko D. Inst

Title

: Use of Activated Silica as an Auxiliary Agent in Coagula-

Orig Pub : Voda, 1957, 36, No 5, 132-134

Abstract : A review.

Card 1/1

ZUBCENKO, D.

Valley reservoirs in river basins containing peat.

P. 38 Vol. 5, no. 1/2, Mar. 1955 VOLUI HOSPODARSTVI Praha

So: Monthly List of East European Accessions (EFAL), LC, Vol. 5, no. 3

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CIA-RDP86-00513R002065520010-0"
CIA-RDP86-00513R002065520010-0"

Activated silica as an auxiliary coagulation agent. p.132. (Voda, Vol. 36, No. 5, May 1957, Praha, Czechoslovakia)

SC: Monthly List of East European Accessions (EEAL) IC. Vol. 6, No. 9, Sept. 1957. Uncl.

ZUECENKO, D.

Rain water. p. 59.

VCDA Vol. 35, no. 2, Feb. 1956

Czechoslovakia

Source: EAST EUROPEAN LISTS Vol. 5, no. 7 July 1956 the state of the s

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R002065520010-0"

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VinA (Ustreini opr va vodniko h podaratvi) Vol. 35, To. 9, Tept. 1956

Praha, Gzechoslovakia

NOTION: Past European List (MAL) Library of Concress, Vol. 6, No. 1, January 1957

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0"

ZUBCENKO, Daniel, inz.

Clogging of steam piping by salts. Energetikn Cx 11 no.11:554 N '61.

(Steam pipes)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0"

ZUBCENKO, Daniel, ing.

Corrosion of water pipes and hot water pipes. Energetika Cz ll no.5:

231-234 My *61.

"APPROVED FOR RELEASE: Thursday, September 26, 2002

ZUEC : A NATION OF RELEASE: Thursday, September 26, 2002

CIA-RDP86-00513R002065520010-0"

"The Scattering of Potassium Ions on the Surface of Tantalum," Thur. Eksper. I Teoret. Fiz., 12, No. 9, 1942. Mbr., Physics Inst., Leningrad Order Lenin State Univ., -1941. im. Budnov.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0" CIA-RDP86-00513R002065520010-0"

- 2. USSR (600)
- 4. Machine Tools
- 7. Universal support. Stan. i instr. 24, No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, May 1953, Unclassified.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CHANINOV, N. V. CIA-RDP86-00513R002065520010-0 CIA-RDP86-00513R002065520010-0"

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- USSR (600)
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- Universal support. Stan. i instr. 24, No. 2, 1953.

Monthly List of Russian Accessions. Library of Congress, Hay 1953. Unclassified "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065520010-0"

ZUHCHANINOV, V.G. (Moskva)

Stability of rods as structural elements beyond the elastic limit. Inzh.sbor. 27:101-113 '60. (MIRA 13:6)

(Elastic rods and wires)

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Zubchaninov, V.G. (Kalinin)

AUTHOR: TITLE:

Axially symmetric form of the loss of stability of a round cylindrical casing beyond the elastic limit

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Otdekeniye tekhnicheskikh nauk. Mekhanika i mashinostroyeniye.

v.5, 1961, 131-132

The paper covers the stability of a round cylindrical casing, of radius R, length \boldsymbol{l} and wall thickness h, which is subjected to an even axial pressure beyond the clastic limit by the force P. It is assumed that on loss of stability, the area of elastoplastic deformation extends over the whole casing and that plastic Using the variational equation developed by L.A. Tolokonnikov (Ref. 1: Rostovsk.-na-Donu gos. un-ta, 1955, v.xxxII, no.4) and using an approximate expression for potential internal forces and moments, an equation for the stability of the casing is found by normal means and is solved for casings with freely supported and with fixed ends. Numerical results are given for a cylinder in which R/h = 50, which is constructed Card 1/2

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Axially symmetric form ...

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from a material having linear hardening properties. The relationship between PR/h and ℓ/R is shown graphically and it is also shown that for both fixed and freely supported specimens, the effect of length on the critical load decreases rapidly as U/R increases up to $\ell/R \cong 1$. Above this value the effect of cylinder length is small, and where the length is greater than the radius, it may be regarded as being of infinite length; a formula for determining the critical loading under these conditions is given. There are 1 figure and 3 Soviet-bloc references.

SUBMITTED: February 26, 1959

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ZUBCHANINOV, V.G. (Kalinin)

Elastoplastic stability of rods. Inzh.zhur. 1 no.3:139-145 '61. (MIRA 15:2)

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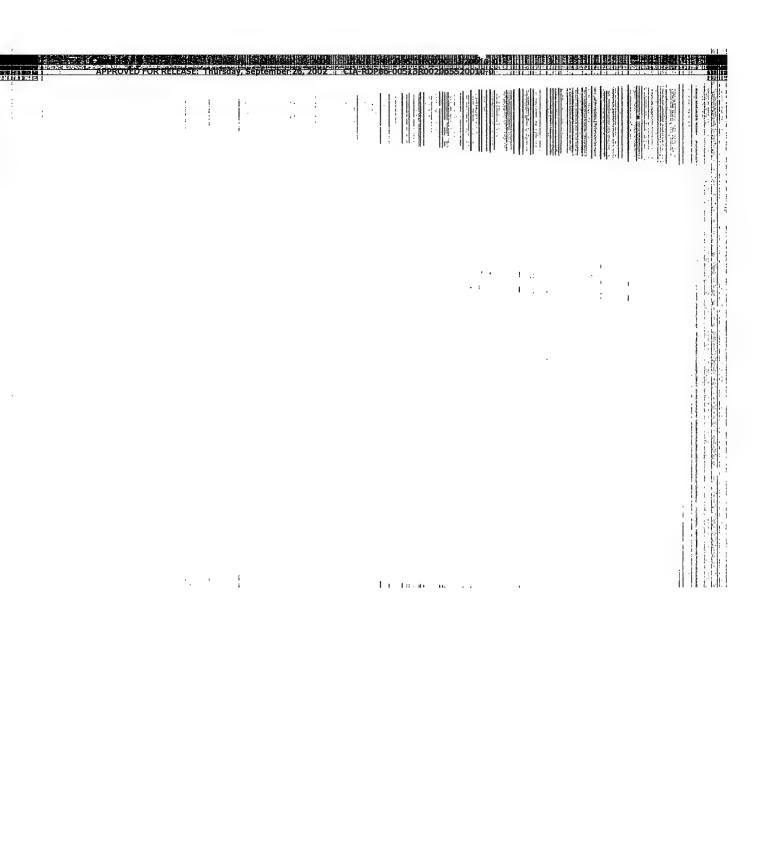
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ZUBCHANINOV, V.G. (Kalinin)

Elastoplastic stability of reds. Insh. zhur. 5 nc.51983-991 165. (HIRA 18:10)